

## **Naming compounds (page to learn by heart!)**

Table 1. Essential compounds to memorize for the name and the charge of the ions

$\text{AgNO}_3$	$\text{Ag}^+$	$\text{NO}_3^-$	silver nitrate	to make mirror
$\text{CaCO}_3$	$\text{Ca}^{2+}$	$\text{CO}_3^{2-}$	calcium carbonate	chalk, egg shell
$\text{LiClO}_4$	$\text{Li}^+$	$\text{ClO}_4^-$	lithium perchlorate	lithium batteries
$\text{BaSO}_4$	$\text{Ba}^{2+}$	$\text{SO}_4^{2-}$	barium sulfate	medical X-ray
$\text{AlPO}_4$	$\text{Al}^{3+}$	$\text{PO}_4^{3-}$	aluminum phosphate	self-rising flour

Figure 1. List of the monovalent ions in ionic compounds

Table 2. Common polyatomic ions

$\text{CN}^-$	cyanide
$\text{OCN}^-$	cyanate
$\text{SCN}^-$	thiocyanate
$\text{S}_2\text{O}_3^{2-}$	thiosulfate
$\text{C}_2\text{O}_4^{2-}$	oxalate
$\text{CH}_3\text{COO}^-$	acetate

$\text{MnO}_4^-$	permanganate
$\text{CrO}_4^{2-}$	chromate
$\text{Cr}_2\text{O}_7^{2-}$	dichromate
$\text{O}_2^{2-}$	peroxide
$\text{OH}^-$	hydroxide
$\text{NH}_4^+$	ammonium

Name and symbol of the elements to learn for NYA and NYB

\*Lanthanides

## ◦Actinides